Signature Page

Signed By

ASISH ADHIKARY

Organization

CONTINENTAL CARBON CO

URL

http://applications.deq.ok.gov/sleis/Document/Sign?facilityId=514465&reportId=283462

Agent

Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.84 Safari/537.36

IΡ

204.87.81.131

Time

4/1/2022 8:26:56 AM

Agreement #1

This Electronic Reporting System ("System") has been established by the Oklahoma Department of Environmental Quality ("DEQ") for the use of businesses or entities required to file reports or other data pursuant to the laws and rules of DEQ and pertaining to matters under the jurisdiction of DEQ.

Agreement #2

I am a duly authorized representative of the business or entity submitting an electronic record or data to DEQ, and I have the authority to submit said records and/or data on behalf of the facility I am representing.

Agreement #3

I agree that use of this System combined with the user's login and password to sign the submission document constitutes an electronic signature equivalent to my written signature. I have reviewed the electronic report being submitted in its entirety and agree to the validity, accuracy, and completeness of the information contained within it to the best of my knowledge. I certify, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Agreement #4

I am free to discontinue this transaction by selecting "Cancel"; otherwise, the records will be submitted to the DEQ, and the transaction will be complete.

Confirmation Number

S20220401082626-F333-R2021

2021 Emissions Inventory Report CONTINENTAL CARBON CO (125)

Emissions Summary for CARBON BLACK PRODUCTION FACILITY (333)

Pollutant Code/CAS#	Pollutant Name		Total Emissions (tons)*				
CO	Carbon Monoxide		91.805				
NOX	Nitrogen Oxides (NOx) expressed as NO2		1,037.429				
PM10-PRI	PM10 - Primary (Filterable + Condensible)		178.648				
PM25-PRI	PM2.5 - Primary (Filterable + Condensible)		178.648				
SO2	Sulfur Oxides (SOx) expressed as SO2		2,248.464				
VOC	Volatile Organic Compounds (VOCs)		13.309				
HAZARDOUS AIR POLLUTANT (HAP) and/or OTHER POLLUTANT EMISSIONS TOTALS							
Pollutant Code/CAS#	Pollutant Name	Is VOC/PM?	Total Emissions (tons)*				

*Rounded to 3 digits past the decimal point. Note that where rounding results in 0, <001 is indicated.

2021 Emissions Inventory Report

CONTINENTAL CARBON CO (125)

CARBON BLACK PRODUCTION FACILITY (333)

COMPANY

Mailing Address: 1006 E OAKLAND AVE PONCA CITY, OK 74601

Contact Phone: (580) 736-8111 **Contact FAX:** (580) 763-8150

FACILITY

Facility Identifier: 333 Facility Name: CARBON BLACK PRODUCTION FACILITY

Status: OP - Operating Status Year:

NAICS: 325180 (Primary) - Other Basic Inorganic Chemical Manufacturing

Comments:

FACILITY - ADDRESS

Location Address: 1006 E OAKLAND AVE PONCA CITY, OK 74601

FACILITY - LOCATION

Latitude (decimal degress):36.66616Longitude (decimal degress):-97.07163Collection Method:014 - GPS code measurements (pseudo range) differential (DGPS)Data Collection Date:08/12/2008

Geographic Reference Point: 101 - Entrance Point of a Facility, System, or Station Geodetic Reference System: 003 - World Geodetic System of 1984

FACILITY - ADDITIONAL INFORMATION

Field Name	Field Value
Oil & Gas Facility Category	Not Applicable
Permit Number(s)	92-092-C PSD M-1,2017-0914-TVR2,2004-302-C M-4,2004-302-C M-2
API/US Well Number	
SIC Number	2895
TRI Identifier (ID)	74602WTCCR1MLE

RELEASE POINTS	RELEASE POINTS								
ID	Туре	Description	Status	Details	Location				
18213	Vertical	Boiler NO 1 stack	OP in 2007	Height: 18.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 800.0 F, Flow Rate: 4,610.0 ACFM, Velocity: 97.827 FPS	Uses Facility Site Location				
18214	Vertical	Boiler NO 2 Stack	OP in 2002	Height: 18.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 800.0 F, Flow Rate: 4,610.0 ACFM, Velocity: 97.827 FPS	Uses Facility Site Location				
18215	Vertical with Rain Cap	CLEAN UP BAG FILTER NO 1	OP in 2002	Height: 38.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
18216	Vertical	CLEAN-UP BAG FILTER NO 2	OP in 2007	Height: 38.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
18217	Goose Neck	CLEAN-UP BAG FILTER NO 3	OP in 2002	Height: 21.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
18218	Vertical with Rain Cap	CLEAN-UP BAG FILTER NO 4	OP in 2002	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
18219	Goose Neck	Shipping Dept CUBF NO 1	OP in 2002	Height: 30.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 72.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
18220	Vertical	Thermal OxidizerNO 1 - TOx for Production Units 1 and 2	OP in 2002	Height: 150.0 FIET, Shape: Circular, Diameter: 10.5 FIET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location				
18221	Vertical	TO NO 2 - The TOx for Production Unit NO 3	OP in 2002	Height: 150.0 FEET, Shape: Circular, Diameter: 9.5 FEET, Temperature: 1,700.0 F, Flow Rate: 381,000.0 ACFM, Velocity: 89.6 FPS	Uses Facility Site Location				
18222	Vertical	TO NO4 - Production Unit NO3	OP in 2002	Height: 213.0 FEET, Shape: Circular, Diameter: 7.0 FEET, Temperature: 1,700.0 F, Flow Rate: 369,200.0 ACFM, Velocity: 159.9 FPS	Uses Facility Site Location				
18223	Fugitive Area	CB Storage Tank	OP in 2002	Fugitive Height: 120.0 FEET, Fugitive Width: 10.0 FEET, Fugitive Length: 10.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location				
18224	Fugitive Area	Feedstock Storage Tank vent	OP in 2002	Fugitive Height: 33.0 FEET, Fugitive Width: 10.0 FEET, Fugitive Length: 10.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location				
33538	Fugitive Area	Shipping Dept. CUBF NO 2	OP in 2005	Fugitive Height: 30.0 FEET, Fugitive Width: 6.0 FEET, Fugitive Length: 6.0 FEET, Fugitive Angle: 0°	Uses Facility Site Location				
41618	Horizontal	Sealed Bin Clean Up Bag Filter	OP in 2008	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
47207	Vertical	Thermal Oxidizer NO 1	OP in 2010	Height: 150.0 FEET, Shape: Circular, Diameter: 11.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 97.24 FPS	Uses Facility Site Location				
47234	Vertical	Thermal Oxidizer NO 1	OP in 2010	Height: 150.0 FEET, Shape: Circular, Diameter: 11.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 97.24 FPS	Uses Facility Site Location				
47238	Vertical	Thermal Oxidizer NO 2	OP in 2010	Height: 150.0 FEET, Shape: Circular, Diameter: 9.5 FEET, Temperature: 1,700.0 F, Flow Rate: 381,000.0 ACFM, Velocity: 89.59 FPS	Uses Facility Site Location				
47239	Vertical	Thermal Oxidizer NO 3	OP in 2007	Height: 213.0 FEET, Shape: Circular, Diameter: 7.0 FEET, Temperature: 1,700.0 F, Flow Rate: 369,200.0 ACFM, Velocity: 159.9 FPS	Uses Facility Site Location				
104185	Vertical with Rain Cap	EPN3	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
104186	Vertical	EPN7	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				
104187	Vertical	EPN 11	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location				

ID	Туре	Description	Status	Details	Location
104188	Vertical	₽ N20	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104189	Vertical	BF4	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104190	Vertical	Sealed Bin Gean-Up Bagfiller NO 2	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104191	Vertical	Transloading Gean-Up Bagfilter	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104197	Vertical	Dryer 11 Firebox stack	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104198	Vertical with Rain Cap	Dryer 12 Firebox	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104199	Vertical	Dryer 21 Firebox	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104200	Vertical	Dryer 31 Firebox	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104201	Vertical	Dryer 32 Firebox	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104202	Vertical	Dryer 41 Firebox	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104203	Vertical	Reactor 11	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104204	Vertical	Reactor 12	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104205	Vertical	Reactor 21	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104206	Vertical	Reactor 31	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104207	Vertical	Reactor 32	OP in 2011	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104208	Vertical	Reactor 41	OP in 2007	Height: 35.0 FEET, Shape: Circular, Diameter: 1.0 FEET, Temperature: 70.0 F, Flow Rate: 5,000.0 ACFM, Velocity: 106.1 FPS	Uses Facility Site Location
104209	Vertical	Waste Gas Combuster 11	OP in 2011	Height: 150.0 FEET, Shape: Circular, Diameter: 10.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location
104210	Vertical	Waste Gas Combustor 12	OP in 2011	Height: 150.0 FEET, Shape: Circular, Dameter: 10.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location
104211	Vertical	Waste Gas Combustor	OP in 2011	Height: 150.0 FEET, Shape: Circular, Dameter: 10.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location
104212	Vertical	Waste Gas Combustor 31	OP in 2011	Height: 150.0 FEET, Shape: Circular, Diameter: 10.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location
104213	Vertical	Waste Gas Combustor 32	OP in 2011	Height: 150.0 FEET, Shape: Circular, Diameter: 10.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location
104214	Vertical	Waste Gas Combustor 41	OP in 2007	Height: 150.0 FEET, Shape: Circular, Dameter: 10.5 FEET, Temperature: 1,700.0 F, Flow Rate: 606,000.0 ACFM, Velocity: 116.6 FPS	Uses Facility Site Location

ID	Туре	Description	Status	Details	Location
104215	Vertical			Height: 4.0 FEET, Shape: Orcular, Diameter: 0.25 FEET, Temperature: 1,075.0 F, Flow Rate: 353.0 ACFM, Velocity: 119.85 FPS	Uses Facility Site Location
104216			Height: 4.0 FEET, Shape: Orcular, Diameter: 0.25 FEET, Temperature: 1,075.0 F, Flow Rate: 353.0 ACFM, Velocity: 119.85 FPS	Uses Facility Site Location	
104217	Vertical	Emergency Generator 4	OP in 2007	Height: 4.0 FEET, Shape: Orcular, Diameter: 0.25 FEET, Temperature: 1,075.0 F, Flow Rate: 557.0 ACFM, Velocity: 189.12 FPS	Uses Facility Site Location

CONTROL DEVICE	CONTROL DEVICES							
ID	Description	scription Status Control Measure Co		Controlled Pollutants				
122506	Direct Flame Afterburner Primary 100 98	OP	21 - Direct Flame Afterburner	CO-Carbon Monoxide: 98.0%, SO2-Sulfur Oxides (SOx) expressed as SO2: 98.0%, VOC-Volatile Organic Compounds (VOCs): 98.0%, 75150-Carbon disulfide: 98.0%, 463581-Carbonyl sulfide: 98.0%, 57125-Cyanide: 98.0%, 7783064-Hydrogen sulfide: 98.0%				
122507	Fabric Filter / Baghouse Primary 100 96	OP	127 - Fabric Filter / Baghouse	PV25-PRI-PM2.5 - Primary (Filterable + Condensible): 96.0%				
122508	Fabric Filter / Baghouse Primary 100 98	OP	127 - Fabric Filter / Baghouse	PM10-PRI-PM10 - Primary (Filterable + Condensible): 98.0%, PM25-PRI-PM2.5 - Primary (Filterable + Condensible): 98.0%				
122509	Fabric Filter / Baghouse Primary 100 99.9	OP	127 - Fabric Filter / Baghouse	PM10-PRI-PM10 - Primary (Filterable + Condensible): 99.9%				
122510	Recuperative Thermal Oxidizer Primary 100 98	OP	317 - Recuperative Thermal Oxidizer	CO-Carbon Monoxide: 98.0%, SO2-Sulfur Oxides (SOx) expressed as SO2: 98.0%, VOC-Volatile Organic Compounds (VOCs): 98.0%, 75150-Carbon disulfide: 98.0%, 463581-Carbonyl sulfide: 98.0%, 7783064-Hydrogen sulfide: 98.0%				

EMISSION UNITS	EMISSION UNITS							
ID	Туре	Description	Status	Details				
18480	100 - Boiler	Boiler NO 1	OP in 2002	Operation Start: , Design Capacity: 6.1 E6BTU/HR				
18481	100 - Boiler	Boiler NO 2	OP in 2002	Operation Start: , Design Capacity: 6.28 E6BTU/HR				
18482	999 - Unclassified	CLEAN-UPBAG FILTER NO 1	OP in 2002	Operation Start: , Design Capacity:				
18483	999 - Unclassified	CLEAN-UPBAG FILTER NO 2	OP in 2002	Operation Start: , Design Capacity:				
18484	999 - Unclassified	CLEAN-UPBAG FILTER NO 3	OP in 2002	Operation Start: , Design Capacity:				
18485	999 - Unclassified	CLEAN-UPBAG FILTER NO 4	OP in 2002	Operation Start: , Design Capacity:				
18486	770 - Transfer Point	Shipping Dept Clean-up Bagfiller 1	OP in 2002	Operation Start: , Design Capacity:				
18487	270 - Incinerator	Thermal Oxidizer NO 1	OP in 2002	Operation Start: , Design Capacity: 147.0 E6BTU/HR				
18488	270 - Incinerator	Thermal Oxidizer NO 2	OP in 2002	Operation Start: , Design Capacity: 87.0 E6BTU/HR				
18489	270 - Incinerator	Thermal Oxidizer NO 3	OP in 2002	Operation Start: , Design Capacity:				
18490	400 - Storage Tank	CB Storage Tanks	OP in 2002	Operation Start: , Design Capacity:				
18491	400 - Storage Tank	Feed stock tank 65,000 Bbl	OP in 2002	Operation Start: , Design Capacity:				
33837	770 - Transfer Point	Shipping Dept Clean-up Bagfiller 2	OP in 2005	Operation Start: , Design Capacity:				
41787	790 - Other bulk material equipment	Sealed Bin Clean Up Bag Filter 1	OP in 2007	Operation Start: , Design Capacity:				
47431	600 - Chemical Reactor	Production Unit 1	OP in 2007	Operation Start: , Design Capacity:				
47467	600 - Chemical Reactor	Production Unit 2	OP in 2007	Operation Start: , Design Capacity:				
47472	600 - Chemical Reactor	Production Unit 3	OP in 2007	Operation Start: , Design Capacity:				
47474	600 - Chemical Reactor	Production Unit 4	OP in 2007	Operation Start: , Design Capacity:				
105127	290 - Other combustion	Production Unit 1 - Transition Events	OP in 2007	Operation Start: , Design Capacity:				
105128	290 - Other combustion	Production Unit 2 - Transition Events	OP in 2007	Operation Start: , Design Capacity:				
105129	999 - Unclassified	Production Unit 3 - Transition Events	OP in 2007	Operation Start: , Design Capacity:				
105130	999 - Unclassified	Production Unit 4 - Transition Events	OP in 2007	Operation Start: , Design Capacity:				
105131	999 - Unclassified	BF4	OP in 2007	Operation Start: , Design Capacity:				
105132	999 - Unclassified	Sealed Bin Clean-Up Bagfilter NO 2	OP in 2007	Operation Start: , Design Capacity:				
105133	999 - Unclassified	Transloading Clean-Up Bagfilter	OP in 2007	Operation Start: , Design Capacity:				
105138	999 - Unclassified	Dryer 11 Firebox	OP in 2007	Operation Start: , Design Capacity:				
105139	999 - Unclassified	Dryer 12 Firebox	OP in 2007	Operation Start: , Design Capacity:				
105140	999 - Unclassified	Dryer 21 Firebox	OP in 2007	Operation Start: , Design Capacity:				
105141	999 - Unclassified	Dryer 31 Firebox	OP in 2007	Operation Start: , Design Capacity:				
105142	999 - Unclassified	Dryer 32 Firebox	OP in 2007	Operation Start: , Design Capacity:				
105143	999 - Unclassified	Dryer 41 Firebox	OP in 2007	Operation Start: , Design Capacity:				
105144	999 - Unclassified	Reactor 11	OP in 2007	Operation Start: , Design Capacity:				
105145	999 - Unclassified	Reactor 12	OP in 2007	Operation Start: , Design Capacity:				

ID	Туре	Description	Status	Details
105146	999 - Unclassified	Reactor 21	OP in 2007	Operation Start: , Design Capacity:
105147	999 - Unclassified	Reactor 31	OP in 2007	Operation Start: , Design Capacity:
105148	999 - Unclassified	Reactor 32	OP in 2007	Operation Start: , Design Capacity: 23.55 E6BTU/HR
105149	999 - Unclassified	Reactor 41	OP in 2007	Operation Start: , Design Capacity: 46.61 E6BTU/HR
105150	270 - Incinerator	Waste Gas Combuster 11	OP in 2007	Operation Start: , Design Capacity: 19.3 E6BTU/HR
105151	270 - Incinerator	Waste Gas Combustor 12	OP in 2007	Operation Start: , Design Capacity: 24.3 E6BTU/HR
105152	270 - Incinerator	Waste Gas Combustor 21	OP in 2007	Operation Start: , Design Capacity: 19.3 E6BTU/HR
105153	270 - Incinerator	Waste Gas Combustor 31	OP in 2007	Operation Start: , Design Capacity: 24.3 E6BTU/HR
105154	270 - Incinerator	Waste Gas Combustor 32	OP in 2007	Operation Start: , Design Capacity: 19.3 E6BTU/HR
105155	270 - Incinerator	Waste Gas Combustor 41	OP in 2007	Operation Start: , Design Capacity: 19.3 E6BTU/HR
105156	160 - Reciprocating IC Engine	Emergency Generator 1 and 2	OP in 2007	Operation Start: , Design Capacity: 63.0 HP
105157	160 - Reciprocating IC Engine	Emergency Generator 3	OP in 2007	Operation Start: , Design Capacity: 63.0 HP
105158	160 - Reciprocating IC Engine	Emergency Generator 4	OP in 2007	Operation Start: , Design Capacity: 110.0 HP

UNIT PROCESSES	NIT PROCESSES							
Emission Unit ID	Unit Process ID	scc	Description	Status	Details			
18480 Boiler NO 1	42562	10200603	Natural Gas - < 10 Million BTU/hr	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18213 - Boiler NO 1 stack: 100.0%			
18481 Boiler NO 2	42563	10200603	Natural Gas - < 10 Million BTU/hr	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18214 - Boiler NO 2 Stack: 100.0%			
18482 CLEAN-UPBAG FILTER NO 1	42564	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122507-Fabric Filter / Baghouse Primary 100 96, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 18215 - CLEAN UP BAG FILTER NO 1: 100.0%			
18483 CLEAN-UPBAG FILTER NO 2	42565	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 18216 - CLEAN-UP BAG FILTER NO 2: 100.0%			
18484 CLEAN-UPBAG FILTER NO 3	42566	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 18217 - CLEAN-UP BAG FILTER NO 3: 100.0%			
18485 CLEAN-UPBAG FILTER NO 4	42567	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 18218 - CLEAN-UP BAG FILTER NO 4: 100.0%			

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
18486 Shipping Dept Clean- up Bagfiller 1	42568	30100508	Carbon Black Production - Bagging/Loading	OP .	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 18219 - Shipping Dept CUBF NO 1: 100.0%
18487 Thermal Oxidizer NO 1	42569	30100502	Carbon Black Production - Thermal Process	OP .	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18220 - Thermal OxidizerNO 1 - TOx for Production Units 1 and 2: 100.0%
18488 Thermal Oxidizer NO 2	42570	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18221 - TO NO 2 - The TOx for Production Unit NO 3: 100.0%
18489 Thermal Oxidizer NO 3	42571	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18222 - TO NO 4 - Production Unit NO 3: 100.0%
18490 CB Storage Tanks	42572	30100599	Carbon Black Production - Other Not Classified	OP .	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 18223 - CB Storage Tank: 100.0%
18491 Feed stock tank 65,000 Bbl	42573	40400301	Oil and Gas Field Storage and Working Tanks - Fixed Roof Tank: Breathing Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18224 - Feedstock Storage Tank vent: 100.0%
18491 Feed stock tank 65,000 Bbl	42574	40400302	Oil and Gas Field Storage and Working Tanks - Fixed Roof Tank: Working Loss	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 18224 - Feedstock Storage Tank vent: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
33837 Shipping Dept Clean- up Bagfiller 2	140845	30100508	Carbon Black Production - Bagging/Loading	OP .	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 33538 - Shipping Dept. CUBF NO 2: 100.0%
41787 Sealed Bin Olean Up Bag Filter 1	149632	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP .	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 41618 - Sealed Bin Clean Up Bag Filter: 100.0%
47431 Production Unit 1	156094	30100502	Carbon Black Production - Thermal Process	OP .	Control Approach Controlled?: Yes Description: Recuperative Thermal Oxidizer and other measures Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 122510-Recuperative Thermal Oxidizer Primary 100 98, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 47207 - Thermal Oxidizer NO 1: 100.0%
47467 Production Unit 2	156116	30100502	Carbon Black Production - Thermal Process	OP .	Control Approach Controlled?: Yes Description: Recuperative Thermal Oxidizer and other measures Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 122510-Recuperative Thermal Oxidizer Primary 100 98, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 47234 - Thermal Oxidizer NO 1: 100.0%
47472 Production Unit 3	156119	30100502	Carbon Black Production - Thermal Process	OP .	Control Approach Controlled?: Yes Description: Recuperative Thermal Oxidizer and other measures Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 122510-Recuperative Thermal Oxidizer Primary 100 98, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 47238 - Thermal Oxidizer NO 2: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
47474 Production Unit 4	156120	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: Yes Description: Recuperative Thermal Oxidizer and other measures Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% 122510-Recuperative Thermal Oxidizer Primary 100 98, Seq: 2, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 47239 - Thermal Oxidizer NO 3: 100.0%
105127 Production Unit 1 - Transition Events	221128	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104185 - EFN 3: 100.0%
105128 Production Unit 2 - Transition Events	221129	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104186 - EPN7: 100.0%
105129 Production Unit 3 - Transition Events	221130	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104187 - EPN 11: 100.0%
105130 Production Unit 4 - Transition Events	221131	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104188 - 日N 20: 100.0%
105131 ⊞F4	221132	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104189 - BF 4: 100.0%
105132 Sealed Bin Clean-Up Bagfilter NO 2	221133	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 104190 - Sealed Bin Clean-Up Bagfiller NO 2: 100.0%

Emission Unit ID	Unit Process ID	scc	Description	Status	Details
105133 Transloading Clean- Up Bagfilter	221134	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	8	Control Approach Controlled?: Yes Description: Fabric Filter / Baghouse Control Devices: 122508-Fabric Filter / Baghouse Primary 100 98, Seq: 1, Capture Efficiency: 100.0%, Uptime/Effectiveness: 100.0% Release Point Apportionment: 104191 - Transloading Clean-Up Bagfilter: 100.0%
105138 Dryer 11 Firebox	221139	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104197 - Dryer 11 Firebox stack: 100.0%
105139 Dryer 12 Firebox	221140	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	8	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104198 - Dryer 12 Firebox: 100.0%
105140 Dryer 21 Firebox	221141	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104199 - Dryer 21 Firebox: 100.0%
105141 Dryer 31 Firebox	221142	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	8	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104200 - Dryer 31 Firebox: 100.0%
105142 Dryer 32 Firebox	221144	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104201 - Dryer 32 Firebox: 100.0%
105143 Dryer 41 Firebox	221145	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104202 - Dryer 41 Firebox: 100.0%
105144 Reactor 11	221146	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104203 - Reactor 11: 100.0%

Emission Unit ID	Unit Process ID	scc	Description	Status	Details
105145 Reactor 12	221147	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104204 - Reactor 12: 100.0%
105146 Reactor 21	221148	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104205 - Reactor 21: 100.0%
105147 Reactor 31	221149	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	8	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104206 - Reactor 31: 100.0%
105148 Reactor 32	221150	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104207 - Reactor 32: 100.0%
105149 Reactor 41	221151	30100504	Carbon Black Production - Oil Furnace Process: Main Process Vent	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104208 - Reactor 41: 100.0%
105150 Waste Gas Combuster 11	221152	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104209 - Waste Gas Combuster 11: 100.0%
105151 Waste Gas Combustor 12	221153	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104210 - Waste Gas Combustor 12: 100.0%
105152 Waste Gas Combustor 21	221154	30100502	Carbon Black Production - Thermal Process	OP.	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104211 - Waste Gas Combustor: 100.0%

Emission Unit ID	Unit Process ID	SCC	Description	Status	Details
105153 Waste Gas Corrbustor 31	221155	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104212 - Waste Gas Combustor 31: 100.0%
105154 Waste Gas Combustor 32	221156	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104213 - Waste Gas Combustor 32: 100.0%
105155 Waste Gas Combustor 41	221157	30100502	Carbon Black Production - Thermal Process	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104214 - Waste Gas Combustor 41: 100.0%
105156 Emergency Generator 1 and 2	221158	20200253	Natural Gas - 4-cycle Rich Burn	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104215 - Emergency Generator 1 and 2: 100.0%
105157 Emergency Generator 3	221159	20200253	Natural Gas - 4-cycle Rich Burn	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104216 - Emergency Generator 3: 100.0%
105158 Emergency Generator 4	221160	20200253	Natural Gas - 4-cycle Rich Burn	OP	Control Approach Controlled?: No Description: Control approach not specified. Assumes not controlled. Release Point Apportionment: 104217 - Emergency Generator 4: 100.0%

PROCESS EMISSI	ONS						
Emission Unit ID	Unit Process ID	Throughput			Operations		
18480 Boiler NO 1	42562 Natural Gas - < 10 Million BTU/hr	Annual Throughput: 19.62 MLLION STANDARD CUBIC FEET (Nati	ural Gas) (Input)		Actual Hours/Year: 7,267), Days/Week: 6.0, Weeks/Year: 50.0 7.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
	•	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.824
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.961
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.075
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		VCC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.054
Emission Unit ID	Unit Process ID	Throughput			Operations		
18481 Boiler NO 2	42563 Natural Gas - < 10 Mllion BTU/hr	Annual Throughput: 26.359 MILLION STANDARD CUBIC FEET (Na	ntural Gas) (Input)		Actual Hours/Year: 8,760), Days/Week: 7.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.993
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	1.183
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.09
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.09
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.007
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.065
Emission Unit ID	Unit Process ID	Throughput			Operations		
18482 CLEAN-UPBAG FILTER NO 1	42564 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 38,583.556 TONS (Oil) (Output)			Actual Hours/Year: 8,168	0, Days/Week: 7.0, Weeks/Year: 49.0 3.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM 10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.462
Emission Unit ID	Unit Process ID	Throughput			Operations		
18483 CLEAN-UPBAG FILTER NO 2	42565 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 33,620.067 TONS (Oil) (Output)			Average Hours/Day: 24.0, Days/Week: 7.0, Weeks/Year: 49.0 Actual Hours/Year: 8,149.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.105
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.105
Emission Unit ID	Unit Process ID	Throughput			Operations		
18484 CLEAN-UPBAG FILTER NO3	42566 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 31,818.686 TONS (Oil) (Input)			Actual Hours/Year: 7,96	0, Days/Week: 7.0, Weeks/Year: 47.0 7.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.051
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.051
Emission Unit ID	Unit Process ID	Throughput			Operations		
18485 CLEAN-UPBAG FILTER NO 4	42567 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 55,422.682 TONS (Oil) (Input)			Actual Hours/Year: 8,165	0, Days/Week: 7.0, Weeks/Year: 49.0 5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.327
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.327
		, I I I I I I I I I I I I I I I I I I I					
Emission Unit ID	Unit Process ID	Throughput			Operations		
Emission Unit ID 18486 Shipping Dept Clean-up Bagfiller 1	Unit Process ID 42568 Carbon Black Production - Bagging/Loading	Annual Throughput: 51.912 TONS (Carbon Black) (Output)			Average Hours/Day: 24.0 Actual Hours/Year: 3,675), Days/Week: 7.0, Weeks/Year: 22.0 5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
18486 Shipping Dept	42568 Carbon Black Production -		Emis. Factor (Lbs/UOM)	Emis. Fa	Average Hours/Day: 24.0 Actual Hours/Year: 3,675	5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0% Estimated Emis. (Tons)
18486 Shipping Dept	42568 Carbon Black Production - Bagging/Loading	Annual Throughput: 51.912 TONS (Carbon Black) (Output)	Emis. Factor (Lbs/UOM)	Emis. Fac	Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: De	5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	
18486 Shipping Dept Gean-up Bagfiller 1	42568 Carbon Black Production - Bagging/Loading	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: De	5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons)
18486 Shipping Dept Clean-up Bagfiller 1	42568 Carbon Black Production - Bagging/Loading	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PRI - PM10 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM)	Emis. Fac	Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: De	5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 0.052
18486 Shipping Dept Clean-up Bagfiller 1	42568 Carbon Black Production - Bagging/Loading	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PRI - PM10 - Primary (Filterable + Condensible) PM25-PRI - PM2.5 - Primary (Filterable + Condensible)		Emis. Fac	Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: Dector UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240	6.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.052 0.052
18486 Shipping Dept Clean-up Bagfiller 1 Emission Unit ID 18487	42568 Carbon Black Production - Bagging/Loading Unit Process ID 42569 Carbon Black Production - Thermal	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PRI - PM10 - Primary (Filterable + Condensible) PW25-PRI - PM2.5 - Primary (Filterable + Condensible) Throughput			Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: Dector UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240	5.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method	0.052 0.052 0.052 Nov: 25.0% Estimated Emis. (Tons)
18486 Shipping Dept Clean-up Bagfiller 1 Emission Unit ID 18487	42568 Carbon Black Production - Bagging/Loading Unit Process ID 42569 Carbon Black Production - Thermal Process	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) Throughput Annual Throughput: 25.634 MILLION STANDARD CUBIC FEET (Na	tural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: Dector UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: De	6.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.052 0.052 0.052 Nov: 25.0% Estimated Emis. (Tons)
18486 Shipping Dept Clean-up Bagfiller 1 Emission Unit ID 18487	42568 Carbon Black Production - Bagging/Loading Unit Process ID 42569 Carbon Black Production - Thermal Process	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) Throughput Annual Throughput: 25.634 MILLION STANDARD CUBIC FEET (Na	tural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: Dector UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: De	6.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.052 0.052 0.052 Nov: 25.0% Estimated Emis. (Tons) 1.077
18486 Shipping Dept Clean-up Bagfiller 1 Emission Unit ID 18487	42568 Carbon Black Production - Bagging/Loading Unit Process ID 42569 Carbon Black Production - Thermal Process	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PRI - PM10 - Primary (Filterable + Condensible) PW25-PRI - PM2.5 - Primary (Filterable + Condensible) Throughput Annual Throughput: 25.634 MILLION STANDARD CUBIC FEET (Na Pollutant CO - Carbon Monoxide	tural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: Dector UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: De	6.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.052 0.052 0.052 Nov: 25.0% Estimated Emis. (Tons) 1.077 1.282 0.097
18486 Shipping Dept Clean-up Bagfiller 1 Emission Unit ID 18487	42568 Carbon Black Production - Bagging/Loading Unit Process ID 42569 Carbon Black Production - Thermal Process	Annual Throughput: 51.912 TONS (Carbon Black) (Output) Pollutant PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) Throughput Annual Throughput: 25.634 MILLION STANDARD CUBIC FEET (Na Pollutant CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2	tural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 3,679 Seasonal Operations: Dector UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: De	6.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.052 0.052 0.052 Nov: 25.0% Estimated Emis. (Tons) 1.077 1.282 0.097

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		VCC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.07
Emission Unit ID	Unit Process ID	Throughput			Operations	·	
18488 Thermal Oxidizer NC 2	42570 Carbon Black Production - Thermal Process	Annual Throughput: 14.897 MLLION STANDARD CUBIC FEET (Nat	tural Gas) (Input)		Actual Hours/Year: 6,240), Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.626
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.745
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.057
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.057
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.004
		VCC- Volatile Organic Compounds (VCCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.041
Emission Unit ID	Unit Process ID	Throughput			Operations		
18489 Thermal Oxidizer NC 3	A2571 Carbon Black Production - Thermal Process	Annual Throughput: 0.033 1000 STANDARD CUBIC FEET (Natural	Gas) (Input)		Actual Hours/Year: 6,240), Days/Week: 5.0, Weeks/Year: 52.0).0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001
		CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US BPA Documents incl. AP-42 & WebFIRE (no F)	0.001
						8. 0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8. 0 - US BPA Documents incl. AP-42 & WebFIRE (no EF)	0.002
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8. 0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8. 0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8. 0 - US BPA Documents incl. AP-42 & WebFIRE (no EF)	0.002 0.0 0.0
		NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E)	0.002 0.0 0.0 0.0
	1	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PV25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs)				8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF)	0.002 0.0 0.0 0.0
Emission Unit ID	Unit Process ID	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PRI - PM10 - Primary (Filterable + Condensible) PM25-PRI - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2			Operations	B.O US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF)	0.002 0.0 0.0 0.0
Emission Unit ID 18490 CB Storage Tanks	Unit Process ID 42572 Carbon Black Production - Other Not Classified	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PV25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs)			Average Hours/Day: 24.0 Actual Hours/Year: 8,760	8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no EF)	0.002 0.0 0.0 0.0 0.0
18490	42572 Carbon Black Production - Other	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM 2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOOs) Throughput	Emis. Factor (Lbs/UOM)	Emis. Fac	Average Hours/Day: 24.0 Actual Hours/Year: 8,760 Seasonal Operations: De	BO - US BPA Documents incl. AP-42 & WebFIRE (no F) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no F) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no F) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no F) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no F) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no F) 9_0, Days/Week: 7.0, Weeks/Year: 52.0	0.002 0.0 0.0 0.0 0.0
18490	42572 Carbon Black Production - Other	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PV25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) Throughput Annual Throughput: 95,772.33383 TONS (Carbon Black) (Output)		Emis. Fac	Average Hours/Day: 24.0 Actual Hours/Year: 8,760 Seasonal Operations: De	BO - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 0, Days/Week: 7.0, Weeks/Year: 52.0 0.0 0-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I Calculation Method 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E)	0.002 0.0 0.0 0.0 0.0 0.0
18490	42572 Carbon Black Production - Other	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VCC - Volatile Organic Compounds (VOCs) Throughput Annual Throughput: 95,772.33383 TONS (Carbon Black) (Output) Pollutant			Average Hours/Day: 24.0 Actual Hours/Year: 8,760 Seasonal Operations: De	B. 0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no E) 0, Days/Week: 7.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I Calculation Method 8_0 - US BPA Documents incl. AP-42 & WebFIRE (no	0.002 0.0 0.0 0.0 0.0 0.0 0.0 Nov: 25.0% Estimated Emis. (Tons)

Emission Unit ID	Unit Process ID	Throughput			Operations		
18491 Feed stock tank 65,000 Bbl	42573 Oil and Gas Field Storage and Working Tanks - Fixed Roof Tank: Breathing Loss	Annual Throughput: 79,998.0 1000 GALLONS (Liquid) (Existing)			Actual Hours/Year: 8,760	0, Days/Week: 7.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
	•	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.381
Emission Unit ID	Unit Process ID	Throughput			Operations		
18491 Feed stock tank 65,000 Bbl	42574 Oil and Gas Field Storage and Working Tanks - Fixed Roof Tank: Working Loss	Annual Throughput: 79,998.0 1000 GALLONS (Liquid) (Input)			Actual Hours/Year: 8,760	0, Days/Week: 7.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	1.198
Emission Unit ID	Unit Process ID	Throughput			Operations		
33837 Shipping Dept Clean-up Bagfiller 2	140845 Carbon Black Production - Bagging/Loading	Annual Throughput: 38.934 TONS (Carbon Black) (Output)			Actual Hours/Year: 2,750	0, Days/Week: 7.0, Weeks/Year: 16.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.039
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.039
Emission Unit ID	Unit Process ID	Throughput			Operations		
41787 Sealed Bin Clean Up Bag Filter 1	149632 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 25.956 TONS (Carbon Black) (Output)			Actual Hours/Year: 4,436	0, Days/Week: 7.0, Weeks/Year: 26.0 6.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.026
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.026
Emission Unit ID	Unit Process ID	Throughput			Operations		
47431 Production Unit 1	156094 Carbon Black Production - Thermal Process	Annual Throughput: 8,603,759.0 GALLONS (Oil) (Input)			Actual Hours/Year: 6,240), Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
	•	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	33.937

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	33.937
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		75150 - Carbon disulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	5.5
		463581 - Carbonyl sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		57125 - Oyanide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		7783064 - Hydrogen sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
Emission Unit ID	Unit Process ID	Throughput			Operations		
47467 Production Unit 2	156116 Carbon Black Production - Thermal Process	Annual Throughput: 5,741,023.39 GALLONS (OI) (Input)			Actual Hours/Year: 6,24	0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 xc-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Mbnoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		NOX - Nitrogen Oxides (NOx) expressed as NO2					194.007
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	29.5716
		SO2 - Sulfur Oxides (SOx) expressed as SO2				 	444.5091
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		75150 - Carbon disulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		463581 - Carbonyl sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		57125 - Cyanide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		7783064 - Hydrogen sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
Emission Unit ID	Unit Process ID	Throughput			Operations		
47472 Production Unit 3	156119 Carbon Black Production - Thermal Process	Annual Throughput: 5,556,973.97 GALLONS (Oil) (Input)			Actual Hours/Year: 6,24	0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 xc-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac		Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Mbnoxide	, , , , , , , , , , , , , , , , , , , ,		-	8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0984
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	36.6655

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no 타)	30.0000
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no 타)	400.0740
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		75150 - Carbon disulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		463581 - Carbonyl sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		57125 - Cyanide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		7783064 - Hydrogen sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
Emission Unit ID	Unit Process ID	Throughput			Operations		
47474 Production Unit 4	156120 Carbon Black Production - Thermal Process	Annual Throughput: 9,445,413.12 GALLONS (Oil) (Input)			Actual Hours/Year: 6	24.0, Days/Week: 5.0, Weeks/Year: 52.0 6,240.0 :: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
	•	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
						8_0 - US EPA Documents incl. AP-42 & WebFIRE (no 臣)	0.0214
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		75150 - Carbon disulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		463581 - Carbonyl sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		57125 - Oyanide				3_0 - Mass Balance Formula (no ⊞)	0.0
		7783064 - Hydrogen sulfide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
Emission Unit ID	Unit Process ID	Throughput			Operations		
105127 Production Unit 1 - Transition Events	221128 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 18,894.0 POUNDS (Oil) (Input)			Actual Hours/Year: 2	0.2, Days/Week: 1.0, Weeks/Year: 10.0 2.0 s: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	-Nov: 25.0%
	-	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				10_0 - OK DEQ Approved Method (no EF)	0.0
		NOX - Nitrogen Oxides (NOx) expressed as NO2				10_0 - OK DEQ Approved Method (no EF)	0.0
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				10_0 - OK DEQ Approved Method (no EF)	0.0
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				10_0 - OK DEQ Approved Method (no EF)	0.0
		SO2 - Sulfur Oxides (SOx) expressed as SO2				10_0 - OK DEQ Approved Method (no EF)	0.0
		VOC - Volatile Organic Compounds (VOCs)				10_0 - OK DEQ Approved Method (no EF)	0.0

		Pollutant	Emis Eactor (Lbs/LIOM)	Emis. Factor UOM	Calculation Method	Fetimated Emis (Tons)
		Foliutarit	Emis. Factor (Lbs/UOM)	LIIIS. FACIOI UCIVI	Calculation Method	Estimated Emis. (Tons)
		75150 - Carbon disulfide			10 0 - OK DEQ Approved Method (no EF)	0.0
		463581 - Carbonyl sulfide			10_0 - OK DEQ Approved Method (no EF)	0.0
		57125 - Cyanide			10 0 - OK DEQ Approved Method (no EF)	0.0
		7783064 - Hydrogen sulfide			10_0 - OK DEQ Approved Method (no EF)	0.0
Emission Unit ID	Unit Process ID	Throughput		Operations	10_0 - GREEZ Approved Welliau (10 L)	0.0
	221129	Throughput		Орегаціона		
105128 Production Unit 2 - Transition Events	Carbon Black Production - Oil Furnace Process:	Annual Throughput: 16,504.0 POUNDS (Oil) (Input)		Actual Hours/Y		0 11 07 01
Transition Events	Main Process Vent				tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%,	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Factor UOM	Calculation Method	Estimated Emis. (Tons)
		O - Carbon Monoxide			10_0 - OK DEQ Approved Method (no EF)	0.0
		NOX - Nitrogen Oxides (NOx) expressed as NO2			10_0 - OK DEQ Approved Method (no EF)	0.0
		PM10-PRI - PM10 - Primary (Filterable + Condensible)			10_0 - OK DEQ Approved Method (no EF)	0.0
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)			10_0 - OK DEQ Approved Method (no EF)	0.0
		SO2 - Sulfur Oxides (SOx) expressed as SO2			10_0 - OK DEQ Approved Method (no EF)	0.0
		VOC - Volatile Organic Compounds (VOCs)			10_0 - OK DEQ Approved Method (no EF)	0.0
		75150 - Carbon disulfide			10_0 - OK DEQ Approved Method (no EF)	0.0
		463581 - Carbonyl sulfide			10_0 - OK DEQ Approved Method (no EF)	0.0
		57125 - Cyanide			10_0 - OK DEQ Approved Method (no EF)	0.0
			+			
		7783064 - Hydrogen sulfide			10_0 - OK DEQ Approved Method (no EF)	0.0
Emission Unit ID	Unit Process ID			Operations	10_0 - OK DEQ Approved Method (no EF)	0.0
Emission Unit ID 105129 Production Unit 3 - Transition Events	Unit Process ID 221130 Carbon Black Production - Oil Furnace Process: Wain Process Vent	7783064 - Hydrogen sulfide		Average Hours, Actual Hours/Ye	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0	
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Ye	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0	
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input)	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%,	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant O - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method	Sep-Nov: 25.0% Estimated Emis. (Tons)
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant O - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant O - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant O - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PW25-PR1 - PM2.5 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VCC - Volatile Organic Compounds (VOCs)	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process:	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NCX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PN25-PR1 - PM 2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VCC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
105129 Production Unit 3 - Transition Events	221130 Carbon Black Production - Oil Furnace Process: Main Process Vent	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide 463581 - Carbonyl sulfide 57125 - Oyanide 7783064 - Hydrogen sulfide	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera Emis. Factor UOM	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
105129 Production Unit 3 -	221130 Carbon Black Production - Oil Furnace Process: Main Process Vent	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide 463581 - Carbonyl sulfide 57125 - Oyanide	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Yo Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
105129 Production Unit 3 - Transition Events Emission Unit ID 105130 Production Unit 4 - Transition Events	221130 Carbon Black Production - Oil Furnace Process: Main Process Vent	7783064 - Hydrogen sulfide Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Ntrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide 463581 - Carbonyl sulfide 57125 - Oyanide 7783064 - Hydrogen sulfide	Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Ye Seasonal Opera Emis. Factor UOM Operations Average Hours, Actual Hours/Ye	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
105129 Production Unit 3 - Transition Events Emission Unit ID 105130 Production Unit 4 - Transition Events	221130 Carbon Black Production - Oil Furnace Process: Main Process Vent Unit Process ID 221131 Carbon Black Production - Oil Furnace Process:	Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NCX - Nitrogen Oxides (NOX) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PN25-PR1 - PM 2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOX) expressed as SO2 VCC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide 463581 - Carbonyl sulfide 57125 - Cyanide 7783064 - Hydrogen sulfide Throughput	Emis. Factor (Lbs/UOM) Emis. Factor (Lbs/UOM)	Average Hours, Actual Hours/Ye Seasonal Opera Emis. Factor UOM Operations Average Hours, Actual Hours/Ye	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF) 20ay: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
105129 Production Unit 3 - Transition Events Emission Unit ID 105130 Production Unit 4 - Transition Events	221130 Carbon Black Production - Oil Furnace Process: Main Process Vent Unit Process ID 221131 Carbon Black Production - Oil Furnace Process:	Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NOX - Nitrogen Oxides (NOX) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOX) expressed as SO2 VCC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide 463581 - Carbonyl sulfide 57125 - Cyanide 7783064 - Hydrogen sulfide Throughput Annual Throughput: 13,576.0 POUNDS (Carbon Black) (Input)		Average Hours, Actual Hours/Ye Seasonal Opera Emis. Factor UOM Operations Average Hours, Actual Hours/Ye Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF) 20 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF) 20 - OK DEQ Approved Method (no EF)	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0
105129 Production Unit 3 - Transition Events Emission Unit ID 105130 Production Unit 4 - Transition Events	221130 Carbon Black Production - Oil Furnace Process: Main Process Vent Unit Process ID 221131 Carbon Black Production - Oil Furnace Process:	Throughput Annual Throughput: 15,975.0 POUNDS (Carbon Black) (Input) Pollutant CO - Carbon Monoxide NCX - Nitrogen Oxides (NOX) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM 2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOX) expressed as SO2 VCC - Volatile Organic Compounds (VOCs) 75150 - Carbon disulfide 463581 - Carbonyl sulfide 57125 - Oyanide 7783064 - Hydrogen sulfide Throughput Annual Throughput: 13,576.0 POUNDS (Carbon Black) (Input)		Average Hours, Actual Hours/Ye Seasonal Opera Emis. Factor UOM Operations Average Hours, Actual Hours/Ye Seasonal Opera	Day: 0.2, Days/Week: 1.0, Weeks/Year: 10.0 ar: 2.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Calculation Method 10_0 - OK DEQ Approved Method (no EF) 20 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF) 10_0 - OK DEQ Approved Method (no EF) 20 - OK DEQ Approved Method (no EF) Calculation Method	Sep-Nov: 25.0% Estimated Emis. (Tons) 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
			, ,				. ,
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				10_0 - OK DEQ Approved Method (no EF)	0.0
		SO2 - Sulfur Oxides (SOx) expressed as SO2				10_0 - OK DEQ Approved Method (no EF)	0.0
		VOC - Volatile Organic Compounds (VOCs)				10_0 - OK DEQ Approved Method (no EF)	0.0
		75150 - Carbon disulfide				10_0 - OK DEQ Approved Method (no EF)	0.0
		463581 - Carbonyl sulfide				10_0 - OK DEQ Approved Method (no EF)	0.0
		57125 - Cyanide				10_0 - OK DEQ Approved Method (no EF)	0.0
		7783064 - Hydrogen sulfide				10_0 - OK DEQ Approved Method (no EF)	0.0
Emission Unit ID	Unit Process ID	Throughput			Operations		
105131 ⊞F 4	221132 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 55,422.68 TONS (Oil) (Input)			Actual Hours/Year: 6,2	4.0, Days/Week: 5.0, Weeks/Year: 52.0 240.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep	Nov: 25.0%
	•	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Mbnoxide				3_0 - Mass Balance Formula (no ⊞)	48.936
		NOX - Nitrogen Oxides (NOx) expressed as NO2				3_0 - Mass Balance Formula (no 🖅)	32.484
		PM10-PRI - PM 10 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	1.739
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	1.739
		VOC - Volatile Organic Compounds (VOCs)				3_0 - Mass Balance Formula (no EF)	3.021
Emission Unit ID	Unit Process ID	Throughput			Operations		
105132 Sealed Bin Clean-Up Bagfilter NO 2	Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 6.489 TONS (Carbon Black) (Input) Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	Actual Hours/Year: 1,2 Seasonal Operations:	4.0, Days/Week: 7.0, Weeks/Year: 7.0 236.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method	Nov: 25.0% Estimated Emis. (Tons)
				1		8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				 	
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.006
Emission Unit ID	Unit Process ID	Throughput			Operations		
105133	221134 Carbon Black				Average Hours/Day: 2	4.0, Days/Week: 7.0, Weeks/Year: 8.0	
Fransloading Clean-	Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 6.489 TONS (Carbon Black) (Output)			Actual Hours/Year: 1,3		Nov: 25.0%
Fransloading Clean-	Furnace Process:	Annual Throughput: 6.489 TONS (Carbon Black) (Cutput) Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	Actual Hours/Year: 1,3 Seasonal Operations:	350.0	Nov: 25.0% Estimated Emis. (Tons)
Transloading Clean-	Furnace Process:	, , , , , , , , , , , , , , , , , , , ,	Emis. Factor (Lbs/UOM)	Emis. Fac	Actual Hours/Year: 1,3 Seasonal Operations:	850.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 0.006
Transloading Clean-	Furnace Process:	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	Actual Hours/Year: 1,3 Seasonal Operations:	850.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method	Estimated Emis. (Tons) 0.006
Transloading Clean- Jo Bagfilter	Furnace Process:	Pollutant PM10-PRI - PM10 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM)	Emis. Fac	Actual Hours/Year: 1,3 Seasonal Operations:	850.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 0.006
Transloading Clean- Up Bagfilter Emission Unit ID	Furnace Process: Main Process Vent	Pollutant PM10-PRI - PM10 - Primary (Filterable + Condensible) PW25-PRI - PM2.5 - Primary (Filterable + Condensible)		Emis. Fac	Actual Hours/Year: 1,3 Seasonal Operations: tor UOM Operations Average Hours/Day: 2 Actual Hours/Year: 6,2	250.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 4.0, Days/Week: 5.0, Weeks/Year: 52.0	Estimated Emis. (Tons) 0.006 0.006
Transloading Clean- Lip Bagfilter Emission Unit ID	Furnace Process: Main Process Vent Unit Process ID 221139 Carbon Black Production - Oil Furnace Process:	Pollutant PM10-FRI - PM10 - Primary (Filterable + Condensible) PV25-FRI - PM2.5 - Primary (Filterable + Condensible) Throughput		Emis. Fac	Actual Hours/Year: 1,3 Seasonal Operations: tor UOM Operations Average Hours/Day: 2 Actual Hours/Year: 6,3 Seasonal Operations:	250.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 4.0, Days/Week: 5.0, Weeks/Year: 52.0	Estimated Emis. (Tons) 0.006 0.006
Emission Unit ID 105138 Dryer 11 Firebox	Furnace Process: Main Process Vent Unit Process ID 221139 Carbon Black Production - Oil Furnace Process:	Pollutant PM10-FRI - PM 10 - Primary (Filterable + Condensible) PV25-FRI - PM 2.5 - Primary (Filterable + Condensible) Throughput Annual Throughput: 0.448 MLLION STANDARD CUBIC FEET (Natu	ural Gas) (Input)		Actual Hours/Year: 1,3 Seasonal Operations: tor UOM Operations Average Hours/Day: 2 Actual Hours/Year: 6,3 Seasonal Operations:	25.0.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep- Calculation Method 8.0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8.0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 4.0, Days/Week: 5.0, Weeks/Year: 52.0 24.0.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	0.006 0.006 0.006

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
			1				1
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.339
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no EF)	0.339
		VOC - Volatile Organic Compounds (VOCs)			1	3_0 - Mass Balance Formula (no ⊞)	0.008
Emission Unit ID	Unit Process ID	Throughput			Operations		
105139 Dryer 12 Firebox	221140 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 0.7861 MILLION STANDARD CUBIC FEET (Na	tural Gas) (Input)		Actual Hours/Year: 6,240	0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 xc-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0	%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				3_0 - Mass Balance Formula (no ⊞)	0.002
		NOX - Ntrogen Oxides (NOx) expressed as NO2				3_0 - Mass Balance Formula (no ⊞)	2.236
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.339
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.339
		VOC - Volatile Organic Compounds (VOCs)				3_0 - Mass Balance Formula (no ⊞)	0.008
Emission Unit ID	Unit Process ID	Throughput			Operations		
105140 Dryer 21 Firebox	221141 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 0.2032 MILLION STANDARD CUBIC FEET (Na	tural Gas) (Input)		Actual Hours/Year: 6,24	0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0°	%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				3_0 - Mass Balance Formula (no ⊞)	0.003
		NOX - Ntrogen Oxides (NOx) expressed as NO2				3_0 - Mass Balance Formula (no ⊞)	3.896
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.591
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.591
		VOC - Volatile Organic Compounds (VOCs)				3_0 - Mass Balance Formula (no ⊞)	0.014
Emission Unit ID	Unit Process ID	Throughput			Operations		
105141 Dryer 31 Firebox	221142 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 0.3802 MILLION STANDARD CUBIC FEET (Na	tural Gas) (Input)		Actual Hours/Year: 6,24	0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 x-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0	%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				3_0 - Mass Balance Formula (no ⊞)	0.001
		NOX - Nitrogen Oxides (NOx) expressed as NO2				3_0 - Mass Balance Formula (no ⊞)	2.115
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.367
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	0.367
		VOC - Volatile Organic Compounds (VOCs)				3_0 - Mass Balance Formula (no ⊞)	0.001
Emission Unit ID	Unit Process ID	Throughput			Operations		
105142 Oryer 32 Firebox	221144 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 0.345 MLLION STANDARD CUBIC FEET (Natu	ural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 6,240	0, Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0	%, Sep-Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fa	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	, ,			3_0 - Mass Balance Formula (no ⊞)	0.001
		NOX - Nitrogen Oxides (NOx) expressed as NO2				3_0 - Mass Balance Formula (no 🖹)	2.115
			1			. ,	1

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		PM10-PRI - PM10 - Primary (Filterable + Condensible)		1		3_0 - Mass Balance Formula (no ⊞)	0.367
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				3 0 - Mass Balance Formula (no 🕒)	0.367
		VOC - Volatile Organic Compounds (VOCs)				3 0 - Mass Balance Formula (no 🗁)	0.001
Emission Unit ID	Unit Process ID	Throughput			Operations		
105143 Dryer 41 Firebox	221145 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 0.6194 MLLION STANDARD CUBIC FEET (Nat	tural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 6,240), Days/Week: 5.0, Weeks/Year: 52.0).0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				3_0 - Mass Balance Formula (no ⊞)	0.0
		NOX - Nitrogen Oxides (NOx) expressed as NO2				3_0 - Mass Balance Formula (no ⊞)	6.117
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no EF)	1.361
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				3_0 - Mass Balance Formula (no ⊞)	1.361
		VOC - Volatile Organic Compounds (VOCs)				3_0 - Mass Balance Formula (no EF)	0.094
Emission Unit ID	Unit Process ID	Throughput			Operations	, ,	
105144 Reactor 11	221146 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 171.429 MILLION STANDARD CUBIC FEET (N	atural Gas) (Input)		Actual Hours/Year: 6,240), Days/Week: 5.0, Weeks/Year: 52.0 0.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	7.2
		NOX - Ntrogen Oxides (NOx) expressed as NO2				世)	8.571
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.651
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.651
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.051
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.471
Emission Unit ID	Unit Process ID	Throughput			Operations		
105145 Reactor 12	221147 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 169.457 MILLION STANDARD CUBIC FEET (N	atural Gas) (Input)		Actual Hours/Year: 6,240), Days/Week: 5.0, Weeks/Year: 52.0 1.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.051

2146 Carton Back Productors - Old Producto	105146 Reactor 21	221148 Carbon Black Production - Oil Furnace Process: Main Process Vent	Throughput Annual Throughput: 104.152 MLLION STANDARD CUBIC FEET (No. 104.152 MLLION	,,,,	Emis. Fac	Average Hours/Day: 2-4 Actual Hours/Year: 6,2 Seasonal Operations: [L.O, Days/Week: 5.0, Weeks/Year: 52.0 40.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Nov: 25.0% Estimated Emis. (Tons) 4.374
2146 Carton Back Productors - Old Producto	105146 Reactor 21	221148 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 104.152 MILLION STANDARD CUBIC FEET (Na Pollutant CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible)	,,,,	Emis. Fac	Average Hours/Day: 2-4 Actual Hours/Year: 6,2 Seasonal Operations: [40.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 4.374
Montange Carbon Black Carbon B	105146 Reactor 21	Carbon Black Production - Oil Furnace Process: Main Process Vent	Pollutant CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible)	,,,,	Emis. Fac	Actual Hours/Year: 6,2 Seasonal Operations: [40.0 Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-I Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	Estimated Emis. (Tons) 4.374
CO - Carbon Marcoxide		Unit Process ID	CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible)	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	4.374
NCK - Nitrogen Oxides (NDx) expressed as ND2 B. Ox. LS BPA Documents incl. AP-42 & WebFRE: [nc. 2, 236]		Unit Process ID	NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PRI - PM10 - Primary (Filterable + Condensible) PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE(no	
PMIOFR - PM 10 - Primary (Filterable + Condensible) Bit Pmin Pmi		Unit Process ID	PM10-PRI - PM10 - Primary (Filterable + Condensible) PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	5 208
Find Finds		Unit Process ID	PV25-PRI - PM2.5 - Primary (Filterable + Condensible)					0.200
Size		Unit Process ID					E)	
Second Date		Unit Process ID	SO2 - Sulfur Oxides (SOx) expressed as SO2				片)	0.396
Intersion Unit ID Unit Process ID Throughput Throughput 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Annual Throughput: 104.152 MLIONSTANDARD CLBIC FEET (Natural Gas) (input) Average Hours/Day: 24.0, Days/Meek: 5.0, Weeks/Year: 52.0 Actual Hours/Year: 6.240.0 Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Dac. Febr. 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Sea		Unit Process ID					F)	0.031
		Unit Process ID						0.286
Carbon Black Production - Oil Furnace Process: Main Process Vert Annual Throughput: 104.152 MILLION STANDARD QUBIC PEET (Natural Gas) (Input) Actual Hours/Year: 6,240.0 Seasonal Operations: Doc-Peb: 25.0%, Mar-May: 25.0%, Sep-Nov: 25.0% Seasonal Operations: Doc-Peb: 25.0%, Mar-May:	'		Throughput			Operations		
O- Carbon Monoxide 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no BF) 4.374 NOX - Nitrogen Oxides (NOX) expressed as NO2 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no BF) 5.208 FM 10 - FRI - FM 10 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 1.000 1.000 FM 25 - FRI - FM 25 - Primary (Filterable + Condensible) 8.0 - US BPA Documents incl. AP-42 & WebFIRE (no Display 1.000 1	105147 Reactor 31	Carbon Black Production - Oil Furnace Process:	Annual Throughput: 104.152 MLLION STANDARD CUBIC FEET (No.	atural Gas) (Input)		Actual Hours/Year: 6,2	40.0	Nov: 25.0%
NOX - Nitrogen Oxides (NOX) expressed as NO2 RM10-PRI - PM10 - Primary (Filterable + Condensible) RM25-PRI - PM2.5 - Primary (Filterable + Condensible) RM25-PRI - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOX) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO2 - Sulfur Oxides (SOX) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - Sulfur Oxides (SOX) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - Sulfur Oxides (SOX) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - Sulfur Oxides (SOX) expressed as SO2 RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - Sulfur Oxides (SOX) expressed as SO2 RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - Sulfur Oxides (SOX) expressed as SO2 RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - Sulfur Oxides (SOX) expressed as SO2 RM3 0 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US BPA Documents incl. AP-42 & WebFIRE (no BP) SO3 - US			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
NCX - Nurogen Cxolos (NCX) expressed as NC2 EF) S.206 PM10-PRI - PM.10 - Primary (Filterable + Condensible) B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 PM25-PRI - PM.25 - Primary (Filterable + Condensible) B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC2 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC2 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC3 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC3 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC3 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC3 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIRE (no D.396 SC4 - Sulfur Oxides (SOX) expressed as SO2 B.0 - US BPA Documents incl. AP-42 & WebFIR			CO - Carbon Monoxide				声	4.374
PM25-FRI - FM2.5 - Primary (Filterable + Condensible) SC2 - Sulfur Oxides (SOx) expressed as SO2 SC2 - Sulfur Oxides (SOx) expressed as SO2 VCC - Volatile Organic Compounds (VOCs) Inission Unit ID Unit Process ID Carbon Black Production - Oil Fundance Process: Main Process Vent Annual Throughput: 186.826 MILLION STANDARD CUBIC FEET (Natural Gas) (Input) Annual Throughput: 186.826 MILLION STANDARD CUBIC FEET (Natural Gas) (Input) Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			NOX - Ntrogen Oxides (NOx) expressed as NO2				Ē)	
S02 - Sulfur Oxides (SOx) expressed as SO2 S02 - Sulfur Oxides (SOx) expressed as SO2 VCC - Volatile Organic Compounds (VOOs) Inission Unit ID Unit Process ID Z21150 Carbon Black Production - Oil Furnace Process: Main Process Vent Annual Throughput: 186.826 MILLION STANDARD OLBIC FIET (Natural Gas) (Input) Annual Throughput: 186.826 MILLION STANDARD OLBIC FIET (Natural Gas) (Input) S02 - Sulfur Oxides (SOx) expressed as SO2 8			PM10-PRI - PM10 - Primary (Filterable + Condensible)				 	
SUZ - Sulful Cikides (SUX) explicitsed as SUZ Final Cikides (SUX) explicit			PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				 	0.396
mission Unit ID Unit Process ID Throughput 221150 Carbon Black Production - Oil Furnace Process: Main Process Vent Throughput: 186.826 MLLION STANDARD CUBIC FIET (Natural Gas) (Input) Annual Throughput: 186.826 MLLION STANDARD CUBIC FIET (Natural Gas) (Input) Annual Throughput: 186.826 MLLION STANDARD CUBIC FIET (Natural Gas) (Input) Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			SO2 - Sulfur Oxides (SOx) expressed as SO2				Ē)	
221150 Carbon Black Production - Oil Furnace Process: Main Process Vent 221150 Annual Throughput: 186.826 MILLION STANDARD CUBIC FEET (Natural Gas) (Input) Annual Throughput: 186.826 MILLION STANDARD CUBIC FEET (Natural Gas) (Input) Actual Hours/Pear: 6,240.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			, , ,				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no 臣)	0.286
Carbon Black Production - Oil Furnace Process: Main Process Vent Carbon Black Production - Oil Furnace Process: Main Process Vent Annual Throughput: 186.826 MLLION STANDARD CUBIC FEET (Natural Gas) (Input) Annual Throughput: 186.826 MLLION STANDARD CUBIC FEET (Natural Gas) (Input) Annual Throughput: 186.826 MLLION STANDARD CUBIC FEET (Natural Gas) (Input) Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			Throughput			Operations		
Pollutant Fmis Factor (LIDM) Fmis Factor LIDM Calculation Method Fstimated Fmis (Tons)	105148 Reactor 32	Carbon Black Production - Oil Furnace Process:	Annual Throughput: 186.826 MLLION STANDARD CUBIC FEET (No.	±T (Natural Gas) (Input)		Actual Hours/Year: 6,240.0		Nov: 25.0%
Total (250 5011) 2110 (1 dol 6011) Calculation motified 2110 (1 one)			Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
8_0 - US EPA Documents incl. AP-42 & WebFIRE (no F) 7.847			CO - Carbon Mbnoxide				(ET)	
NOX - Ntrogen Oxides (NOx) expressed as NO2 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)			NOX - Ntrogen Oxides (NOx) expressed as NO2				(
			PM10-PRI - PM 10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.71

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no	
		,				8.0 LIS EDA Documente incl. A P.42 & MahEIDE (no.	
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.056
Emission Unit ID	Unit Process ID	Throughput			Operations		
105149 Reactor 41	221151 Carbon Black Production - Oil Furnace Process: Main Process Vent	Annual Throughput: 187.55 MILLION STANDARD CUBIC FEET (Nat	tural Gas) (Input)		Actual Hours/Year: 6,240	, Days/Week: 5.0, Weeks/Year: 52.0 .0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
						8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	7.877
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	9.377
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PV25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.713
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.506
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.516
Emission Unit ID	Unit Process ID	Throughput			Operations		
Dilission Gilt ID	Gritt' 1 GGGGG 1B	on 3b					
105150 Waste Gas Combuster 11	221152 Carbon Black Production - Thermal Process	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Natu.	ural Gas) (Input)		Average Hours/Day: 24.0 Actual Hours/Year: 6,240	, Days/Week: 5.0, Weeks/Year: 52.0 .0 Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%
105150 Waste Gas	221152 Carbon Black Production - Thermal		iral Gas) (Input) Emis. Factor (Lbs/UOM)	Emis. Fac	Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec	.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0% Estimated Emis. (Tons)
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Natu			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec tor UOM	.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Estimated Emis. (Tons)
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MLLION STANDARD CUBIC FEET (Natu			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec tor UOM	8.0 - US EPA Documents incl. AP-42 & WebFIRE (no	0.019 0.022
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MLLION STANDARD CUBIC FEET (Nature Pollutant O- Carbon Monoxide			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec tor UOM	8.0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8.0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8.0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.019 0.022 0.002
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Nature Pollutant O - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec	.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.019 0.022 0.002 0.002
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Nature Pollutant CO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible)			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec	.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.019 0.022 0.002 0.002 0.002
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Nature Pollutant OO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM 2.5 - Primary (Filterable + Condensible)			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec	25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF) 8 0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.019 0.022 0.002 0.002 0.002
105150 Waste Gas	221152 Carbon Black Production - Thermal	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Nature Pollutant OO - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM 10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2			Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec	.0 c-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no E) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no E)	0.019 0.022 0.002 0.002 0.002
105150 Waste Gas Combuster 11	221152 Carbon Black Production - Thermal Process	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Nature Pollutant O - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs)	Emis. Factor (Lbs/UOM)		Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec tor UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240	Co-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP)	0.019 0.022 0.002 0.002 0.001
105150 Waste Gas Combuster 11 Emission Unit ID 105151 Waste Gas	221152 Carbon Black Production - Thermal Process Unit Process ID 221153 Carbon Black Production - Thermal	Annual Throughput: 0.448 MILLION STANDARD CUBIC FEET (Nature Pollutant O - Carbon Monoxide NOX - Nitrogen Oxides (NOx) expressed as NO2 PM10-PR1 - PM10 - Primary (Filterable + Condensible) PM25-PR1 - PM2.5 - Primary (Filterable + Condensible) SO2 - Sulfur Oxides (SOx) expressed as SO2 VOC - Volatile Organic Compounds (VOCs) Throughput	Emis. Factor (Lbs/UOM)		Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec tor UOM Operations Average Hours/Day: 24.0 Actual Hours/Year: 6,240 Seasonal Operations: Dec	Co-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Calculation Method 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP) 8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EP)	0.019 0.022 0.002 0.002 0.001

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		NOX - Nitrogen Oxides (NOx) expressed as NO2	(,			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.039	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		PW25-PRI - PM 2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0	
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002	
Emission Unit ID	Unit Process ID	Throughput			Operations			
105152 Waste Gas Combustor 21	221154 Carbon Black Production - Thermal Process	Annual Throughput: 0.203 1000 STANDARD CUBIC FEET (Natural	Gas) (Input)		Actual Hours/Year: 6,240	, Days/Week: 5.0, Weeks/Year: 52.0 .0 :-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%	
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		PM10-PRI - PM 10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0	
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001	
Emission Unit ID		Throughput			Operations			
105153 Waste Gas Combustor 31	221155 Carbon Black Production - Thermal Process	Annual Throughput: 0.38 MILLION STANDARD CUBIC FEET (Natura		Actual Hours/Year: 6,240	Day: 24.0, Days/Week: 5.0, Weeks/Year: 52.0 par: 6,240.0 tions: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
,		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)	
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		PM25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)		
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001	
Emission Unit ID		Throughput			Operations			
105154 Waste Gas Corrbustor 32	221156 Carbon Black Production - Thermal Process	Annual Throughput: 0.345 MLLION STANDARD CUBIC FEET (Natu	ral Gas) (Input)		Actual Hours/Year: 6,240	, Days/Week: 5.0, Weeks/Year: 52.0 .0 :-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-	Nov: 25.0%	

		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.014
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001
Emission Unit ID	Unit Process ID	Throughput			Operations		
105155 Waste Gas Combustor 41	221157 Carbon Black Production - Thermal Process	Annual Throughput: 0.619 MILLION STANDARD CUBIC FEET (Natu	ral Gas) (Input)		Average Hours/Day: 24.0, Days/Week: 5.0, Weeks/Year: 52.0 Actual Hours/Year: 6,240.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	ctor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.026
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PM10-PRI - PM10 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		PW25-PRI - PM2.5 - Primary (Filterable + Condensible)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		SO2 - Sulfur Oxides (SOx) expressed as SO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.0
		VOC - Volatile Organic Compounds (VOCs)				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002
Emission Unit ID	Unit Process ID	Throughput			Operations		
105156 Emergency Generator 1 and 2	221158 Natural Gas - 4- cycle Rich Burn	Annual Throughput: 1,575.0 HORSEPOWER-HOURS (Natural Gas)	(Input)		Average Hours/Day: 1.0, Days/Week: 1.0, Weeks/Year: 25.0 Actual Hours/Year: 25.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		
L		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
						8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.002
		NOX - Ntrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.001
Emission Unit ID	Unit Process ID	Throughput			Operations		
105157 Emergency Generator 3	221159 Natural Gas - 4- cycle Rich Burn	Annual Throughput: 3,017.7 HORSEPOWER-HOURS (Natural Gas)	7.7 HORSEPOWER-HOURS (Natural Gas) (Input)		Average Hours/Day: 1.0, Days/Week: 1.0, Weeks/Year: 48.0 Actual Hours/Year: 48.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%		Nov: 25.0%
		Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac	tor UOM	Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide	, ,			8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.004
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.003

Emission Unit ID	Unit Process ID	Throughput			Operations		
105158 Emergency Generator 4	221160 Natural Gas - 4- cycle Rich Burn	Annual Throughput: 3,065.7 HORSEPOWER-HOURS (Natural Gas) (Input)		Average Hours/Day: 1.0, Days/Week: 1.0, Weeks/Year: 28.0 Actual Hours/Year: 28.0 Seasonal Operations: Dec-Feb: 25.0%, Mar-May: 25.0%, Jun-Aug: 25.0%, Sep-Nov: 25.0%			
<u> </u>	1	Pollutant	Emis. Factor (Lbs/UOM)	Emis. Fac		Calculation Method	Estimated Emis. (Tons)
		CO - Carbon Monoxide				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	
		NOX - Nitrogen Oxides (NOx) expressed as NO2				8_0 - US EPA Documents incl. AP-42 & WebFIRE (no EF)	0.003